PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



04FKWM015	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.			
International application No.	International filing date (day/me				
PCT/KR2004/002636	15 OCTOBER 2004 (15	.10.2004)	16 OCTOBER 2003 (16.10.2003)		
Applicant					
LG ELECTRONICS, INC. et a	al . 				
This International search report has been pr to Article 18. A copy is being transmitted to	epared by this International Search the International Bureau.	ing Authority ar	nd is transmitted to the applicant according		
This international search report consists of a	a total of 2 sheets. opy of each prior art document cite	d in this report.			
language in which it was filed, un	less otherwise indicated under this	item.	the international application in the		
The international search this Authority (Rule 2		translation of the	e international application furnished to		
b. With regard to any nucleotid	le and/or amino acid sequence dis	closed in the inte	ernational application, see Box No. I.		
2. Certain claims were found	unsearchable (See Box No. II)	•	•		
3. Unity of invention is lacking	g (See Box No. III)				
4. With regard to the title,					
X the text is approved as submi	tted by the applicant.	•			
the text has been established	by this Authority to read as follow	/s:			
					
		:			
		:			
		•			
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S With record to the shades					
5. With regard to the abstract, X the text is approved as submi	itted by the applicant	•	·		
· · · · · ·	• • • • • • • • • • • • • • • • • • • •	Authority as it s	appears in Box No. IV. The applicant		
			ort, submit comments to this Authority.		
	care or maning or and intornac	on ropo	,		
6. With regard to the drawings,	and the body and the state of the Fire of	No 2			
a. the figure of the drawings to be p		110.			
as suggested by the app					
because the applicant fa	er characterizes the invention.				
		. :			
b. none of the figure is to be pu	ionished with the dostract.				
,		:			

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/002636

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 F24C 15/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 F24C 7/08, F24C 15/02, H05B 6/64, H05B 6/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patent and application for inventions since 1975, Korean Utility Models and application for Utility Models since 1975

Japanese Utility Models and applications for Utility Models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	KR 2000-31906 A(SAMSUNG ELECTRONICS CO.,LTD.) 5 JUNE 2000 see the whole document	12, 13, 15, 16, 18, 20		
Т	US 6,664,523 B1(SAMSUNG ELECTRONICS CO.,LTD.) 16 DECEMBER 2003 see the whole document	1-20		
A	KR 2002-39498 A(LG ELECTRONICS CO.,LTD.) 27 MAY 2002 see the whole document	1-20		
Α.	.KR 1991-0000717 Y(SAMSUNG ELECTRONICS CO.,LTD.) 8 FEBRUARY 1991 see the whole document	1-20		
· А	KR 1993-4034 U(GOLDSTAR CO.,LTD.) 26 FEBRUARY 1993 see the whole document	1-20		

L	 Further	documents	are list	ed in the	e continuation	of Box C	;.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

31 JANUARY 2005 (31.01.2005)

Date of mailing of the international search report

31 JANUARY 2005 (31.01.2005)

Name and mailing address of the ISA/KR



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